



Missouri Department of Natural Resources

PUBLIC NOTICE

DRAFT MISSOURI STATE OPERATING PERMIT

DATE: June 16, 2006

In accordance with the state Clean Water Law, Chapter 644, RSMo, Clean Water Commission regulation 10 CSR 20-6.010, and the federal Clean Water Act, the applicants listed herein have applied for authorization to either discharge to waters of the state or to operate a no-discharge wastewater treatment facility. The proposed permits for these operations are consistent with applicable water quality standards, effluent standards and/or treatment requirements or suitable timetables to meet these requirements (see 10 CSR 20-7.015 and 7.031). All permits will be issued for a period of five years, unless noted otherwise in the Public Notice for that discharge.

On the basis of preliminary staff review and the application of applicable standards and regulations, the Missouri Department of Natural Resources (MDNR), as administrative agent for the Missouri Clean Water Commission, proposes to issue a permit(s) subject to certain effluent limitations, schedules, and special conditions. The proposed determinations are tentative pending public comment.

Persons wishing to comment on the proposed permit conditions are invited to submit them in writing to the Department of Natural Resources, St. Louis Regional Office, 7545 South Lindbergh, Suite 210, St. Louis, Missouri 63125, ATTN: Thomas M. Siegel, Chief, Permits and Engineering. Please include the permit number in all comment letters.

Comments should be confined to the issues relating to the proposed action and permit(s) and the effect on water quality. The MDNR may not consider as relevant comments or objections to a permit based on issues outside the authority of the Clean Water Commission, (see Curdt v. Mo. Clean Water Commission, 586 S.W.2d 58 Mo. App. 1979).

All comments must be postmarked by **July 16, 2006** or received in our office by 5:00 p.m. on **July 19, 2006**. The requirement of a signed document makes it impossible to accept email comments for consideration at this time. Comments will be considered in the formulation of all final determinations regarding the applications. If response to this notice indicates significant public interest, a public meeting or hearing may be held after due notice for the purpose of receiving public comment on the proposed permit or determination. Public hearings and/or issuance of the permit will be conducted or processed according to 10 CSR 20-6.020.

Copies of all draft permits and other information including copies of applicable regulations are available for inspection and copying at DNR's website, <http://www.dnr.mo.gov/env/wpp/wpcp-pn.htm> or at the Department of Natural Resources, St. Louis Regional Office, 7545 S. Lindbergh, Suite 210, St. Louis, Missouri 63125, between the hours of 8:00 a.m. and 5:00 p.m., Monday through Friday.

Public Notice Date: June 16, 2006

Permit Number: MO-0112585

St. Louis Regional Office

FACILITY NAME AND ADDRESS	NAME AND ADDRESS OF OWNER
Wildhorse Spring Farm Chesterfield, MO 63005	Wildhorse Spring Farm Homeowner's Association PO Box 23 Chesterfield, MO 63006
RECEIVING STREAM & LEGAL DESCRIPTION	TYPE OF DISCHARGE
Wet Weather Tributary to Wildhorse Creek NW ¼, SW ¼, SE ¼, Sec 16(proj), T45N, R3E, St. Louis County	Domestic; Reissue

STATE OF MISSOURI
DEPARTMENT OF NATURAL RESOURCES
MISSOURI CLEAN WATER COMMISSION



MISSOURI STATE OPERATING PERMIT

In compliance with the Missouri Clean Water Law (Chapter 644 R.S. Mo. as amended, hereinafter, the Law), and the Federal Water Pollution Control Act (Public Law 92-500, 92nd Congress) as amended,

Permit No.

MO-0112585

Owner:

Wildhorse Spring Farm Homowners Association

Address:

PO Box 23, Chesterfield, MO 63006

Continuing Authority:

Same as above

Address:

Same as above

Facility Name:

Wildhorse Spring Farm

Facility Address:

Chesterfield, MO 63005

Legal Description:

NW ¼, SW ¼, SE ¼, Sec 16 (projected), T45N, R3E, St. Louis County

Latitude/Longitude:

3838141/-09041081

Receiving Stream:

Wet weather tributary to Wildhorse Creek (U)

First Classified Stream and ID:

Wildhorse Creek (C) (01700)

USGS Basin & Sub-watershed No.:

(1300200-130003)

is authorized to discharge from the facility described herein, in accordance with the effluent limitations and monitoring requirements as set forth herein:

FACILITY DESCRIPTION

Outfall #001 – Subdivision - SIC # 4952

Extended aeration/ sludge holding tank/ sludge disposal by contract hauler.

Design population equivalent is 178.

Design flow is 20,700 gallons per day.

Actual flow is 9,500 gallons per day.

Design sludge production is 3.2 dry tons/year.

This permit authorizes only wastewater discharges under the Missouri Clean Water Law and the National Pollutant Discharge Elimination System; it does not apply to other regulated areas. This permit may be appealed in accordance with Section 644.051.6 of the Law.

Effective Date

Doyle Childers, Director, Department of Natural Resources
Executive Secretary, Clean Water Commission

Expiration Date

Mike Struckhoff., Director, St. Louis Regional Office

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS					PAGE NUMBER 2 of 5	
					PERMIT NUMBER MO-0112585	
The permittee is authorized to discharge from outfall(s) with serial number(s) as specified in the application for this permit. The interim effluent limitations shall become effective upon issuance and remain in effect until <u>March 31, 2009</u> . Such discharges shall be controlled, limited and monitored by the permittee as specified below:						
OUTFALL NUMBER AND EFFLUENT PARAMETER(S)	UNITS	INTERIM EFFLUENT LIMITATIONS			MONITORING REQUIREMENTS	
		DAILY MAXIMUM	WEEKLY AVERAGE	MONTHLY AVERAGE	MEASUREMENT FREQUENCY	SAMPLE TYPE
Outfall #001 (Note 1)						
Flow	MGD	*		*	Once/month	24 hr. estimate
Biochemical Oxygen Demand ₅	mg/L		45	30	Once/quarter**	Note 2
Total Suspended Solids	mg/L		45	30	Once/quarter**	Note 2
Temperature	°C	*		*	Once/quarter**	grab
pH – Units ***	SU	6-9		6-9	Once/quarter**	grab
Ammonia Nitrogen	mg/L	*		*	Once/quarter**	grab
Fecal Coliform (Note 3)	****	*		*	Once/quarter**	grab
MONITORING REPORTS SHALL BE SUBMITTED <u>QUARTERLY</u> ; THE FIRST REPORT IS DUE _____. THERE SHALL BE NO DISCHARGE OF FLOATING SOLIDS OR VISIBLE FOAM IN OTHER THAN TRACE AMOUNTS.						
B. STANDARD CONDITIONS						
IN ADDITION TO SPECIFIED CONDITIONS STATED HEREIN, THIS PERMIT IS SUBJECT TO THE ATTACHED <u>Parts I & III</u> STANDARD CONDITIONS DATED <u>October 1, 1980 and August 15, 1994</u> , AND HEREBY INCORPORATED AS THOUGH FULLY SET FORTH HEREIN.						

MO 780-0010 (8/91)

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS (continued)

- * Monitoring requirement only.
- ** Sample once per quarter in the months of March, June, September and December.
- *** pH is measured in pH units and is not to be averaged. The pH is limited to the range of 6.0-9.0 pH units.
- **** Colonies per 100mL, whenever there is a discharge.

Note 1 – A formal water quality review has not been conducted.

Note 2– A composite sample made up from a minimum of four grab samples collected within a twenty four (24) hour period with a minimum of two (2) hours between each grab sample.

Note 3 – Final limitations and monitoring requirements for Fecal Coliform and Total Residual Chlorine are applicable only during the recreational season from April 1 through October 31. If chlorination is utilized, Total Residual Chlorine limits of .010 mg/L will apply.

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS					PAGE NUMBER 3 of 5	
					PERMIT NUMBER MO-0112585	
The permittee is authorized to discharge from outfall(s) with serial number(s) as specified in the application for this permit. The final effluent limitations shall become effective April 1, 2009 and remain in effect until expiration of the permit. Such discharges shall be controlled, limited and monitored by the permittee as specified below:						
OUTFALL NUMBER AND EFFLUENT PARAMETER(S)	UNITS	FINAL EFFLUENT LIMITATIONS			MONITORING REQUIREMENTS	
		DAILY MAXIMUM	WEEKLY AVERAGE	MONTHLY AVERAGE	MEASUREMENT FREQUENCY	SAMPLE TYPE
Outfall #001 (Note 1)						
Flow	MGD	*		*	Once/month	24 hr. estimate
Biochemical Oxygen Demand ₅	mg/L		45	30	Once/quarter**	Note 2
Total Suspended Solids	mg/L		45	30	Once/quarter**	Note 2
Temperature	°C	*		*	Once/quarter**	grab
pH – Units ***	SU	6—9		6—9	Once/quarter**	grab
Ammonia Nitrogen	mg/L	*		*	Once/quarter**	grab
Fecal Coliform (Note 3)	****	1000		400	Once/quarter**	grab
MONITORING REPORTS SHALL BE SUBMITTED <u>QUARTERLY</u> ; THE FIRST REPORT IS DUE _____. THERE SHALL BE NO DISCHARGE OF FLOATING SOLIDS OR VISIBLE FOAM IN OTHER THAN TRACE AMOUNTS.						
B. STANDARD CONDITIONS						
IN ADDITION TO SPECIFIED CONDITIONS STATED HEREIN, THIS PERMIT IS SUBJECT TO THE ATTACHED <u>Parts I & III</u> STANDARD CONDITIONS DATED <u>October 1, 1980 and August 15, 1994</u> , AND HEREBY INCORPORATED AS THOUGH FULLY SET FORTH HEREIN.						

MO 780-0010 (8/91)

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS (continued)

- * Monitoring requirement only.
- ** Sample once per quarter in the months of March, June, September, and December.
- *** pH is measured in pH units and is not to be averaged. The pH is limited to the range of 6.0-9.0 pH units.
- **** Colonies per 100mL, whenever there is a discharge.

Note 1 – A formal water quality review has not been conducted.

Note 2– A composite sample made up from a minimum of four grab samples collected within a twenty four (24) hour period with a minimum of two (2) hours between each grab sample.

Note 3 - Final limitations and monitoring requirements for Fecal Coliform and Total Residual Chlorine are applicable only during the recreational season from April 1 through October 31. If chlorination is utilized, Total Residual Chlorine limits of .010 mg/L will apply.

C. SPECIAL CONDITIONS

1. This permit may be reopened and modified, or alternatively revoked and reissued, to:
 - (a) Comply with any applicable effluent standard or limitation issued or approved under Sections 301(b)(2)(C) and (D), 304(b)(2), and 307(a) (2) of the Clean Water Act, if the effluent standard or limitation so issued or approved:
 - (1) contains different conditions or is otherwise more stringent than any effluent limitation in the permit; or
 - (2) controls any pollutant not limited in the permit.
 - (b) Incorporate new or modified effluent limitations or other conditions, if the result of a waste load allocation study, toxicity test or other information indicates changes are necessary to assure compliance with Missouri's Water Quality Standards.
 - (c) Incorporate new or modified effluent limitations or other conditions if, as the result of a watershed analysis, a Total Maximum Daily Load (TMDL) limitation is developed for the receiving waters which are currently included in Missouri's list of waters of the state not fully achieving the state's water quality standards, also called the 303(d) list.

The permit as modified or reissued under this paragraph shall also contain any other requirements of the Clean Water Act then applicable.
2. All outfalls must be clearly marked in the field.
3. Permittee will cease discharge by connection to areawide wastewater treatment system within 90 days of notice of its availability.
4. Changes in Discharges of Toxic Substances
The permittee shall notify the Director as soon as it knows or has reason to believe:
 - (a) That any activity has occurred or will occur which would result in the discharge of any toxic pollutant which is not limited in the permit, if that discharge will exceed the highest of the following "notification levels":
 - (1) One hundred micrograms per liter (100 µg/L);
 - (2) Two hundred micrograms per liter (200 µg/L) for acrolein and acrylonitrile, five hundred micrograms per liter (500 µg/L) for 2,5 dinitrophenol and for 2-methyl-4, 6-dinitrophenol; and one milligram per liter (1 mg/L) for antimony;
 - (3) Five (5) times the maximum concentration value reported for the pollutant in the permit application;
 - (4) The level established in Part A of the permit by the Director.
 - (b) That they have begun or expect to begin to use or manufacture as an intermediate or final product or byproduct any toxic pollutant, which was not reported in the permit application.
 - (b) That the effluent limit established in part A of the permit will be exceeded.
5. Report as no-discharge when a discharge does not occur during the report period.
6. Water Quality Standards
 - (a) Discharges to waters of the state shall not cause a violation of water quality standards rule under 10 CSR 20-7.031, including both specific and general criteria.
 - (a) General Criteria. The following general water quality criteria shall be applicable to all waters of the state at all times including mixing zones. No water contaminant, by itself or in combination with other substances, shall prevent the waters of the state from meeting the following conditions:
 - (1) Waters shall be free from substances in sufficient amounts to cause the formation of putrescent, unsightly or harmful bottom deposits or prevent full maintenance of beneficial uses;
 - (2) Waters shall be free from oil, scum and floating debris in sufficient amounts to be unsightly or prevent full maintenance of beneficial uses;
 - (3) Waters shall be free from substances in sufficient amounts to cause unsightly color or turbidity, offensive odor or prevent full maintenance of beneficial uses;
 - (4) Waters shall be free from substances or conditions in sufficient amounts to result in toxicity to human, animal or aquatic life;
 - (5) There shall be no significant human health hazard from incidental contact with the water;
 - (6) There shall be no acute toxicity to livestock or wildlife watering;
 - (7) Waters shall be free from physical, chemical or hydrologic changes that would impair the natural biological community;
 - (7) Waters shall be free from used tires, car bodies, appliances, demolition debris, used vehicles or equipment and solid waste as defined in Missouri's Solid Waste Law, section 260.200, RSMo, except as the use of such materials is specifically permitted pursuant to section 260.200-260.247.

C. SPECIAL CONDITIONS (continued)

7. Sludge and Biosolids Use For Domestic Wastewater Treatment Facilities
- (a) Permittee shall comply with the pollutant limitations, monitoring, reporting, and other requirements in accordance with the attached permit Standard Conditions.
 - (b) If sludge is not removed by a contract hauler, permittee is authorized to land apply biosolids. Permit Standard Conditions, Part III shall apply to the land application of biosolids. Permittee shall notify the department at least 180 days prior to the planned removal of biosolids. The department may require submittal of a biosolids management plan for department review and approval as determined appropriate on a case-by-case basis.

D. SCHEDULE OF COMPLIANCE

The final daily maximum and monthly average Fecal Coliform limits of 1000/100ml and 400/100ml, respectively, shall become effective on **April 1, 2009** unless items 2 or 3 below are approved by the Department. The Effluent Regulation 10 CSR 20-7.015(9)(H) allows the permittee to:

1. Install disinfection facilities, **(this option requires a construction permit from the Department of Natural Resources)** dechlorination will be required with any proposed chlorination system or;
2. Present an evaluation to show that disinfection is not required to protect the designated recreational uses, or;
3. Present a Use Attainability Analysis (UAA) that demonstrates that the designated recreational uses are not attainable in the classified waters receiving the effluent. Please note that the Department conducted a UAA during 2005 on Wildhorse Creek, St. Louis County, which was inconclusive.

Date of Fact Sheet: June 7, 2006

Date of Public Notice:

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT
FACT SHEET

This Fact Sheet explains the applicable regulations, rationale for development of this permit and the public participation process.

NPDES PERMIT NUMBER: MO-0112585

FACILITY NAME: Wildhorse Spring Farm

OWNER NAME: Wildhorse Spring Farm Homeowner's Association

LOCATION: NW ¼, SW ¼, SE ¼, Sec 16 (projected), T45N, R3E, St. Louis County:

RECEIVING STREAM: Wet weather tributary to Wildhorse Creek (U)

FACILITY CONTACT PERSON: Jeannie Whitmann TELEPHONE: 636-537-4252

FACILITY DESCRIPTION AND RATIONALE

This facility was built in 1992 under cp#22-4274. The facility consists of an extended aeration, an aerated sludge holding tank. Sludge is removed by a contract hauler. The design flow for this facility is 20,700 gallons per day. The average flow for the system over the past two years was 9,500 gallons per day. The effluent discharges to a wet weather tributary to Wildhorse Creek., approximately 1 mile upstream of Wildhorse Creek, which is classified (C), two miles from the mouth to Sec 29, T45N, R3E St. Louis County. The designated uses for Wildhorse Creek at this location are Livestock & Wildlife Watering (LWW), Protection of Warm Water Aquatic Life and Human Health –Fish Consumption (AQL), and Whole Body Contact Recreation (WBC), Category B.

Missouri Clean Water Commission Regulation 10 CSR 20-7.015(9)(H)

“Implementation Schedule for Protection of Whole Body Contact and Secondary Contact Recreation.

1. For all permitted wastewater discharges containing bacteria, the department shall, upon the issuance or first renewal or first significant modification of each permit on or after December 31, 2005, include within each permit a compliance schedule that provides up to five (5) years for the permittee to either install disinfection systems, present an evaluation sufficient to show that disinfection is not required to protect one (1) or both designated recreational uses, or present a use attainability analysis (UAA) that demonstrates one (1) or both designated recreational uses are not attainable in the classified waters receiving the effluent. This provision does not apply to permits issued for construction applications submitted to the department after December 31, 2005.
2. Notwithstanding the provisions of (9)(H)1., all permits shall insure compliance with effluent limits to protect whole body contact and secondary contact recreation by no later than December 31, 2013, unless the permittee presents an evaluation sufficient to show that disinfection is not required to protect one (1) or both designated recreational uses, or a use attainability analysis (UAA) demonstrates that one (1) or both designated recreational uses are not attainable in the classified waters receiving the effluent.”

As a result of the discharge to a classified stream, standard technology-based limits as stated in 10 CSR 20-7.015 (4) for BOD5, TSS, pH, fecal coliform and total residual chlorine (TRC) are believed necessary to protect the receiving stream. Ammonia and temperature have been added as monitoring requirements to determine if there is “reasonable potential” to violate state water quality standards for those parameters. The permit should contain a reopener clause should the data generated by this permit, or other monitoring data, indicate that state water quality standards are being exceeded, due at least in part, to this discharge.

A formal water quality review has not been conducted.

This permit will be issued for a period of five years.